

Tri-State Autism Spectrum Disorder Webinar Series



This material was developed under a grant from the Colorado Department of Education. The content does not necessarily represent the policy of the U.S. Department of Education, and you should not assume endorsement by the Federal Government.

The content of this material was developed under an agreement from the Federal Department of Education to the Kansas Department of Education. However, those contents do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Kansas Department of Education or the Federal Government. TASN Autism and Tertiary Behavior Supports does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Deputy Director, Keystone Learning Services, 500 E. Sunflower, Ozawkie, KS 66070, 785-876-2214.

The contents of this power point presentation were developed under a grant from the Nebraska Department of Education, IDEA parts B and C from the U.S. Department of Education. However, this content does not necessarily represent the policy of the U.S. Department of Education and you should not assume endorsement by the Federal Government.

Presenter Information



RUTH ASPY, Ph.D., is a licensed psychologist who specializes in transdisciplinary assessment and intervention for individuals with autism spectrum disorders. She is co-creator of a comprehensive model of intervention, the Ziggurat Model. Along with Dr. Barry Grossman, Dr. Aspy has written The Ziggurat Model, which earned the 2008 Literary Achievement Award from the Autism Society of America. The Model is being used successfully throughout the United States and internationally in countries including Japan, Greece, Canada, and Mexico. Dr. Aspy speaks nationally and internationally.



BARRY G. GROSSMAN, Ph.D., is a licensed psychologist and author. He is in private practice with the Ziggurat Group and specializes in assessment and intervention for individuals with autism spectrum disorders. Dr. Grossman, along with Dr. Aspy, wrote The Ziggurat Model—a book on designing interventions for students with Asperger's Disorder and high-functioning autism. He and his co-author present on this model internationally. The Ziggurat Model has been adopted at the district-wide and state-wide levels.

Tri State Webinar Series 2015-2016

Learner Objectives

- Define catatonia
- Describe how the DSM-5 categorizes catatonia (specifiers)
- Recognize the key characteristics of catatonia
- Describe issues surrounding catatonia in autism (separate condition?, waxing/waning)

Presentation Summary

- Catatonia is associated with ASD
- Characteristics of catatonia overlap with ASD
- The history of catatonia is complex
- Catatonia can be life threatening and requires its own treatment



Catatonia

A disorder of posture/movement, speech, mood, & "behavior."

Tri State Webinar Series 2015-2016

Autism

A disorder of posture/movement, speech, mood, & "behavior."

Two Sides One Coin?

- Autism is an "early expression" of catatonia (Dhossche, 2004)
- "Catatonia is a later complication of autism spectrum disorders . . ."
 (Wing and Shah, 2000 p.357)

Tri State Webinar Series 2015-2016

Autism? Catatonia?



"Catatonia provides a window into the mechanism of autism, and vice versa" p.157

Dhossche, (2014)

Fink's View of Catatonia

- Catatonia is a syndrome a collection of a number of signs that occur spontaneously in a person.
- Catatonia is its own entity a separate syndrome.

Fink, Personal Communication (12-29-15)

Tri State Webinar Series 2015-2016

History

- •1874 Kahlbaum first to describe & define catatonia
- •1899 Kraepelin, described patients with dementia praecox (later schizophrenia) catatonia as a subtype.

History

"The demotion of catatonia ... to that of a subtype (catatonic schizophrenia), ...has hidden catatonia from recognition as a unique syndrome for more than a century" (Fink, 2013, p. 10).

Tri State Webinar Series 2015-2016

History

- •1952 to 1994 The DSM classified catatonia as a type of schizophrenia
- •1973 Kahlbaum's work is translated into English and others began to find catatonia in patients **without** schizophrenia (Fink, 2013)

Fink's View of Catatonia

The APA task force could not agree what catatonia was so [they] put it in multiple places. Those of us who deal with it have concluded that catatonia is an individual disorder that [may occur] in anybody. It has nothing to do with schizophrenia.

Fink, Personal Communication (12-29-15)

Tri State Webinar Series 2015-2016

TABLE 1 DISORDERS ASSOCIATED WITH CATATONIA IN CHILDHOOD AND ADOLESCENCE⁷⁻²²

Developmental disorders

- Autistic disorder⁹⁻¹² and possibly childhood disintegrative disorder¹¹
- Mental retardation⁷
- Prader-Willi Syndrome⁸

Psychotic disorders13

Mood disorders13

Mental disorders due to a general medical condition14-18

Substance-induced disorders14

Tourette's Syndrome 12,19,20

Medication-induced movement disorder (NMS)21,22

NMS=neuroleptic malignant syndrome.

Dhossche DM, Wilson C, Wachtel LE. Primary Psychiatry. Vol 17, No 4. 2010.

Dhossche, Wilson, & Wachtel, L. E. (2010).

Catatonia Today

- According to Fink (2013), research demonstrates that catatonia is an independent condition
- •2013 The DSM-5 added catatonia secondary to a medical disorder and associated with mental disorders (specifier)

Tri State Webinar Series 2015-2016



DSM-5 ASD Specifiers

- 1. With or without intellectual impairment
- 2. With or without language impairment
- 3. Associated with known medical or genetic condition
- 4. Associated with another neurodevelopmental, mental, or behavioral disorder
- 5. With catatonia

DSM-5 Catatonia Associated with Another Mental Disorder (Catatonia Specifier)

- 1. Stupor
- 2. Catalepsy
- 3. Waxy flexibility
- 4. Mutism
- 5. Negativism
- 6. Posturing
- 7. Mannerism

- 8. Stereotypy
- Agitation, not influenced by external stimuli
- 10.Grimacing
- 11.Echolalia
- 12. Echopraxia



Tri State Webinar Series 2015-2016

Immobility & Excitability

Broadly stated, symptoms of catatonia manifest in two ways:

- Immobility (e.g., stupor, catalepsy)
- Excitability (e.g., agitation, hyperactivity, aggression)

Stupor: Extreme hypoactivity, immobility. Minimally responsive to stimuli

Staring: Fixed gaze, little or no visual scanning of environment, decreased blinking

Stupor/Staring



https://www.youtube.com/watch?v=Iu7C5clA4q0

Dhossche, D. M., & Wachtel, L. E. (2008, p.456)

Tri State Webinar Series 2015-2016

Posturing/Catalepsy

Maintains posture(s), including mundane (e.g., sitting or standing for hours without reacting)



https://en.wikipedia.org/wiki/Catalepsy

Dhossche, D. M., & Wachtel, L. E. (2008, p.456)

Posturing/Catalepsy



http://www.artandmedicine.com/clinical/neuro/Paralysis%20 Agitans%202.html

Tri State Webinar Series 2015-2016

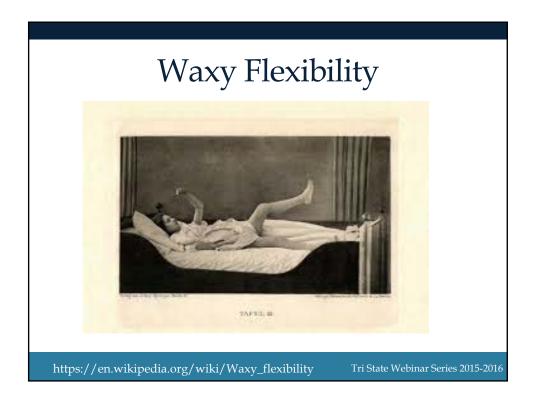
Waxy Flexibility



During reposturing, patients offers initial resistance before allowing himself to be repositioned (similar to that of bending a warm candle)

https://en.wikipedia.org/wiki/Stupor

Dhossche, D. M., & Wachtel, L. E. (2008, p.456)



COMMON CATATONIC SYMPTOMS IN CHILDREN AND ADULTS*		
	Children (%)	Adults (%)
Mutism	87	78
Posturing/grimacing	52	66
Stupor	80	66
Staring	49	57
Waxy flexibility	62	35
Incontinence	45	i — i
Based on data reported by DI	nossche and Bouman ⁸	

Posture & Movement

- Immobility or slowness in walking
- Inability to eating or drink / slow eating or drinking
- Tics
- Repetitive, non-goal oriented movements
- Hyperactivity/hypoactivity
- Constant motor activity (e.g., pacing)

Tri State Webinar Series 2015-2016

Posture & Movement

- Odd gait unusual way of walking, toewalking
- Odd stiff posture
- Freezing during actions
- Difficulty crossing lines
- Inability to stop actions



Posture & Movement

- Fixed eye gaze, little visual scanning of environment, decreased blinking
- Odd facial expressions that are held for long time
- Impulsive inappropriate behaviors (e.g., remove clothes)

Tri State Webinar Series 2015-2016

Posture & Movement

- Excitement & agitation uncontrollable destructive movements and unprovoked destructive acts (note: "aggressive" not used here because implies intent to harm)
- Minimally responsive to environment
- Ritualistic behaviors
- Incontinence

Dystonia

- Dys means abnormal
- Tone means tension

Dystonia – movement disorder – sustained muscle contractions causing, twisting, repetitive movement, or abnormal postures

Dhossche, D. M., & Wachtel, L. E. (2008, p.458)

Tri State Webinar Series 2015-2016

Focal Hand Dystonia

- Involuntary movements or tremor in hand or arm
- Interferes with writing by causing in voluntary muscle contractions
- Sometimes task specific –
 only apparent during certain
 activities such as writing or
 eating



Tri State Webinar Series 2015-2016

Dystonia - Anismus

- Type of dystonia
- Causes painful constipation and defecation
- May be complicated by encopresis

Tri State Webinar Series 2015-2016

Speech: Spasmodic Dystonia

 Causes the voice to sound broken hoarse or reduces volume to a whisper

Speech: Mutism and Echoalia

- Minimal verbal responses
- Significant reduction in speech production
- Total absence of speech
- Echolalia
- Verbigeration repeating meaningless words or phrases

Tri State Webinar Series 2015-2016

Mood

• "The inability to initiate and complete movements causes frustration, resulting in stress and tension that, in turn, is likely to exacerbate the difficulty with voluntary movements."

(Shah & Wing, 2006 p.256)



DSM-5

"The seemingly opposing clinical features and variable manifestations of the diagnosis contribute to a lack of awareness and decreased recognition of catatonia" (p.119).

Tri State Webinar Series 2015-2016

Poll

 Based on these characteristics, how many of you believe that you may have worked with an individual who may have had catatonia and ASD?

Poll

• For those of you who responded, "Yes," how many of you suspected catatonia in this individual for the first time?

Tri State Webinar Series 2015-2016

"Catatonia Variants" Disorders that meet criteria for Catatonia

- Obsessive-compulsive disorder (OCD)
- Tourette's Disorder
- Selective Mutism
- Vocal and Motor Tic Disorder (DSM-5)
- Neuroleptic-Induced Parkinsonism (DSM-5)
- •Stereotypic Movement Disorder

Fink (2013)

Same Thing - Different Words

"Psychiatrists, neurologists, pediatricians, psychologists, and other child specialists often have their own criteria and terminology that are never compared across disciplines. Like with the Tower of Babel, synergy that may advance the field of autism and catatonia is lost due to confusing diagnostic terminology among specialties."

(Dhossche, Shah, Wing, 2006, page 269)

Tri State Webinar Series 2015-2016

Catatonia-like Deterioration (ASD)

- Features of catatonia manifest for first time or become marked in adolescence or adulthood
- Symptoms are severe with decline in:
 - Movement
 - Self-care
 - Pattern of activities
 - Practical skills

Shah & Wing, 2006



Catatonia-Like vs. Catatonia

Shah and Wing (2006) indicate:

- Catatonic stupor is rare
- No incidence of waxy flexibility

Onset of deterioration and Outcomes

- •Slow
- Not as responsive to medical intervention

Tri State Webinar Series 2015-2016

4 to 17 percent of adolescents and adults with ASD have catatonia

(Wing and Shah, 2000, Billstedt et al., 2005, Oheta et al., 2006, Hutton et al., 2008, and Ghaziuddin et al, 2012)

Onset

- Between 10 and 19 years
- Often gradual

(Wing and Shah, 2000)

Tri State Webinar Series 2015-2016

Wing & Shah - Catatonia & ASD

- 1. Slowness of movement and verbal responses
- 2. Difficulty initiating and completing actions
- 3. Increased reliance on physical or verbal prompting
- 4. Increased passivity and apparent lack of motivation

Wing & Shah (2000)

Wing & Shah - Catatonia & ASD

- 5. Reversal of day and night
- 6. Parkinsonian features tremor, eye rolling, dystonia
- 7. Excitement and agitation
- 8. Increased repetitive, ritualistic behavior

Wing & Shah (2000)

Tri State Webinar Series 2015-2016

Catatonia & ASD

- The effects on movement are **NOT under voluntary control**.
- The person is **NOT** being **deliberately** manipulative, aggressive, stubborn, willful, obstructive, or lazy.

Shah & Wing, 2006, p.255

Wachtel's Symptoms of Catatonia in Autism

- Immobility/rigidity
- •Stupor
- Mutism
- Posturing
- Echophenomena
- Grimacing

- Physical excitement
- Combativeness
- Stereotypy
- Negativism
- Autonomic instability

Wachtel (2013)

Tri State Webinar Series 2015-2016

SUSPEND DISBELIEF

Waxing and Waning

• In all cases of catatonia and ASD, the severity changes within the span of a day.



https://en.wikipedia.org/wiki/Lunar_phase

(Ohta, Kano, and Nagai in Dhossche, Wing, Ohta, and Neumarker, 2006)

Tri State Webinar Series 2015-2016

Ambitendency



- ambi both
- Tendency a proneness to a particular kind of thought or action

Tendency to act in opposite ways or directions:

- The presence of opposing behavioral drives
- Contrary behavior, does exact opposite of instruction

(My brain says, "Cooperate" but my body says, "No.")

Negativism

- Motiveless resistance to instructions or attempts to move
 - Unplanned
 - Without purpose

Bush-Francis Catatonia Rating Scale

Tri State Webinar Series 2015-2016



What is the function of this movement?

- Escape
- Attention
- •Access
- Avoidance
- •Automatic reinforcement

Motiveless

- Just because there is a pattern does not mean there is a purpose/function Cause is the wind
- In catatonia behaviors are caused by **catatonia**. They are <u>not</u> done "on purpose."



Betrayal Discussion

- Negativism
- Stereotypy



Tri State Webinar Series 2015-2016

Contact Information

Ruth Aspy, Ph.D. aspy@texasautism.com

Barry G. Grossman, Ph.D.

grossman@texasautism.com



www.texasautism.com

References

- Billstedt, E., Gillberg, C., & Gillberg, C. (2005). Autism after adolescence: population-based 13-to 22-year follow-up study of 120 individuals with autism diagnosed in childhood. Journal of autism and developmental disorders, 35(3), 351-360.
- Dhossche, D. M. (2014). Decalogue of catatonia in autism spectrum disorders. Frontiers in psychiatry, 5.
- Dhossche, D. M., Shah, A., & Wing, L. (2006). Blueprints for the assessment, treatment, and future study of catatonia in autism spectrum disorders. International Review of Neurobiology, 72, 267-284.
- Dhossche, D. M., & Wachtel, L. E. (2008). Catatonia in psychiatric illnesses. In The Medical Basis of Psychiatry (pp. 455-470). Humana Press.
- Dhossche, D. M., Wilson, C., & Wachtel, L. E. (2010). Catatonia in childhood and adolescence: implications for the DSM-5. Primary Psychiatry, 17(4), 35.

Tri State Webinar Series 2015-2016

References

- Fink, M. (2013). Rediscovering catatonia: the biography of a treatable syndrome. Acta Psychiatrica Scandinavica, 127(s441), 1-47.
- Hutton, J., Goode, S., Murphy, M., Le Couteur, A., & Rutter, M. (2008). New-onset psychiatric disorders in individuals with autism. Autism, 12(4), 373-390.
- Ohta, M., Kano, Y., & Nagai, Y. (2006). Catatonia in Individuals With Autism Spectrum Disorders in Adolescence and Early Adulthood: A Long-term Prospective Study. International review of neurobiology, 72, 41-54.
- Shah, A., & Wing, L. (2006). Psychological approaches to chronic catatonia-like deterioration in autism spectrum disorders. International review of neurobiology, 72, 245-264.
- Wachtel, L. E. (2013). Catatonia in Autism.
- Wing, L., & Shah, A. (2000). Catatonia in autistic spectrum disorders. The British Journal of Psychiatry, 176(4), 357-362.

